LIST OF CONTENTS

VOLUME 13 (1988)

Number 1

Eduardo De Robertis, Clara Peña, Alejandro C. Paladini and Jorge H. Medina	1	Review: New developments on the search for the endogenous ligand(s) of central benzodiazepine receptors
M. Hamon	13	Critique: Recent developments on the search for the endogenous ligand(s) of central benzodiazepine receptors
Ian L. Martin and Jonathan P. Fry	17	Critique: Endogenous ligands for the benzodiazepine receptor
Claus Braestrup	21	Critique: New developments in the search for central benzodiazepine endogenous ligand(s)
David M. Evans, Peter J. Richardson, Alan Fine, William T. Mason and J. Oliver Dolly	25	Relationship of acceptors for botulinum neurotoxins (types A and B) in rat CNS with the cholinergic marker, Chol-I
Michihisa Tohda and Yasuyuki Nomura	37	Neurochemical and morphological studies on differentiation of NG108-15 cells by phorbol ester and forskolin
F. M. Pari, G. Roussel, F. Nussbaum and J. L. Nussbaum	43	Study of a 53 kDa cell surface antigen of oligodendrocytes in culture
Tatsuo Suzuki, Chikako Sato and Ryo Tanaka	53	The occurrence of microtubule-associated proteins 1 and 2 in a synaptic junction preparation from rat cerebrum
Grace Y. Sun, Hsueh-Meei Huang and Renuka Chandrasekhar	63	Turnover of inositol phosphates in brain during ischemia-induced breakdown of polyphosphoinositides
M. Hillmann, P. A. Wilce and B. C. Shanley	69	Effects of chronic ethanol exposure on the GABA–benzodiazepine receptor complex in rat brain
Makoto Naoi, Toshihide Iwashita and Toshiharu Nagatsu	75	Uptake of glycosylated β-galactosidase into human brain synaptosomes: occurrence of two different systems for specific glycosides
Barbara Wiggert, C. Lal Kapoor, Ling Lee, Robert L. Somers and Gerald J. Chader	81	Phosphorylation of interphotoreceptor retinoid-binding protein (IRBP)
A. J. Cross, P. Slater, E. K. Perry and R. H. Perry	89	An autoradiographic analysis of serotonin receptors in human temporal cortex: changes in Alzheimer-type dementia
Lourdes Arbonés, José García-Verdugo, Fernando Picatoste and Agustina García	97	Presence and distribution of histaminergic components in rat and bovine retina
Anders Lehmann and Elisabeth Hansson	105	Morphological effects of excitatory amino acid analogs on primary astroglial cultures
P. Bürgisser, H.-H. Althaus, A. Rohmann and V. Neuhoff	111	Lipid synthesis by oligodendrocytes from adult pig brain maintained in long-term culture
Maureen Docherty and H. F. Bradford	119	Choline acetyltransferase in mammalian synaptosomes: evidence for an integral membrane-bound form
	129	Book Reviews
	133	News Items

Contents

Number 2

Heinrich Betz and Cord-Michael Becker	137	Review: The mammalian glycine receptor: biology and structure of a neuronal chloride channel protein
Solomon H. Snyder	147	Critique: The glycine receptor as a paradigm for elegant molecular neuroscience
Hal Sternberg, Jacques Baudier, Ken Akizuki, Gregory M. Cole, William H. Martin, Carl E. Creutz, Paola S. Timiras and R. David Cole	149	Similarities and differences between Tau protein and Chromobindin A
Kanato Yamagata, Che-Hui Kuo and Naomasa Miki	153	Characterization and partial purification of a neurotrophic factor for cerebrocortical neurons from chicken cerebral extract
Kurt Andersson, Kjell Fuxe, Peter Eneroth, Anders Härfstrand and Luigi F. Agnati	159	Involvement of D1 dopamine receptors in the nicotine-induced noradrenaline release from hypothalamic and preoptic noradrenaline nerve terminal systems
Kjell Fuxe, Luigi F. Agnati, Kurt Andersson, Antonio Cintra, Anders Härfstrand, Michele Zoli, Peter Eneroth and Menek Goldstein	165	D1 receptor mechanisms in the median eminence and their inhibitory regulation of LHRH release
Kjell Fuxe, Antonio Cintra, Luigi F. Agnati, Anders Härfstrand and Menek Goldstein	179	Studies on the relationship of tyrosine hydroxylase, dopamine and cyclic AMP-regulated phosphoprotein-32 immunoreactive neuronal structures and D1 receptor antagonist binding sites in various brain regions of the male rat—mismatches indicate a role of D1 receptors in volume transmission
M. Israël, B. Lesbats, N. Morel, R. Manaranche and S. Birman	199	The lipid requirements of mediatophore for acetylcholine release activity. Large-scale purification of this protein in a reactive form
N. Morel, R. Manaranche and M. Israël	207	Immunological detection of mediatophore in motor end-plates and electric organ subcellular fractions of *Torpedo marmorata*
Hiroaki Nishio, Hajime Sogabe and Tomio Segawa	217	Effect of immobilization stress on pipecolic acid transport in mouse brain areas and peripheral tissues
P. Govitrapong and M. Ebadi	223	The inhibition of pineal arylalkylamine N-acetyltransferase by glutamic acid and its analogues
Luis Garcia, Martine Verdière-Sahuqué, Patrick A. Dreyfus, Marc Nicolet and François Rieger	231	Association of tailed acetylcholinesterase to lipidic membranes in mammalian skeletal muscle
Jean-Louis Charli, Carlos Cruz, Miguel-Angel Vargas and Patricia Joseph-Bravo	237	The narrow specificity pyroglutamate amino peptidase degrading TRH in rat brain is an ectoenzyme
J-L. Sanne and H. Scarna	243	An enzymoimmunoassay for rat gamma enolase using two monoclonal antibodies
M. Fusco, B. Figliomeni, A. Gorio and G. Vantini	251	Postnatal development of bulbospinal serotoninergic system. Effects of GM1 ganglioside following neonatal 5,7-dihydroxytryptamine treatment
Terunori Mitsuma, Koshin Adachi, Masakuni Mukoyama, Keiko Ohsugi and Kazuya Ando	261	Concentrations of thyrotropin-releasing hormone and substance P are increased in several areas of the central nervous system of shambling mutant mice

Contents

Shigeo Kitayama, Katsuya Morita, Toshihiro Dohi and Akira Tsujimoto — 265 Benzodiazepine inhibition of the stimulation-evoked catecholamine release from bovine adrenomedullary cells in culture

271 Book Reviews

273 News Items

Number 3

H. Ollat, H. Parvez and S. Parvez — 275 Review: Alcohol and central neurotransmission

K. F. Tipton — 301 Critique: Central neurotransmission and alcohol

M. Thereza R. Perez, Karin Arnér and Berndt Ehinger — 307 Stimulation-evoked release of purines from the rabbit retina

Amiram I. Barkai and Leelavati R. Murthy — 319 Neurotransmitter-induced changes in arachidonate incorporation into rat brain phospholipids: pharmacological manipulations of receptors, presynaptic uptake, MAO activity and deacylation–reacylation processes

Luis Garcia, Martine Verdière-Sahuqué, Patrick A. Dreyfus, Marc Nicolet and François Rieger — 327 A dimeric form of acetylcholinesterase anchored through a glycolipid in mouse skeletal muscle

Steven P. Wilson and John F. Beeler — 333 Catecholamine depletion and accumulation of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) and 1-methyl-4-phenylpyridinium (MPP^+) in adrenal medullary chromaffin cells

T. Mennini, M. Gobbi, C. Taddei and S. Garattini — 345 Characterization of high affinity and stereospecific [^{3}H]*d*-fenfluramine binding to rat brain

Steven E. Shelton, Ned H. Kalin, John P. Gluck, Michael F. Keresztury, Vicki A. Schneider and Mark H. Lewis — 353 Effect of age on cisternal cerebrospinal fluid concentrations of monoamine metabolites in nonhuman primates

C. Cassagne, H. Juguelin, F. Boiron-Sargueil and A. Heape — 359 Increased acylation of lysophosphatidylcholine in microsomes of Trembler mouse peripheral nerves

Ward E. Harris and William L. Stahl — 369 Interactions of phenytoin with rat brain synaptosomes examined by fluorescent fatty acid probes

Claude Joyal, Robert Lalonde and M. I. Botez — 379 The effects of chronic dietary phenytoin on 5-HT and 5-HIAA levels in rats

Genevieve Daune and Nikolaus Seiler — 383 Interrelationships between ornithine, glutamate and GABA—III. An ornithine aminotransferase activity that is resistant to inactivation by 5-fluoromethylornithine

A. J. Cholewinski and G. P. Wilkin — 393 Bradykinin and vasopressin both stimulate phosphoinositide turnover in astrocytes in high serum- and low serum-containing media but have no effect on [^{3}H]thymidine incorporation

Hani Ghazi and Neville N. Osborne — 397 Activation of phosphoinositide-specific PLC increase free intracellular calcium in rabbit retinal cultures

Melvyn P. Heyes, Burton Hutto and Sanford P. Markey — 405 Rapid Important Paper: 4-chloro-3-hydroxyanthranilate inhibits brain 3-hydroxyanthranilate oxidase

Contents

Petrus J. Pauwels, Paul Van Gompel, Didier de Chaffoy de Courcelles and Josée E. Leysen — 409 Rapid Important Paper: Agonist-induced desensitization of 5-HT_2 receptors on cultured calf aortic smooth muscle cells

415 Book Reviews

417 News Items

Number 4

Jaak Järv and Marika Eller — 419 Commentary: Kinetic aspects of L-quinuclidinyl benzilate interaction with muscarinic receptor

P. Homayoun and J. M. Bourre — 429 Acetoacetate, D-3-hydroxybutyrate and glucose utilization by capillaries isolated from developing rat brain

M. V. Mikaelyan and R. M. Nalbandyan — 435 A novel copper-containing protein from brain

M. B. A. Djamgoz — 439 Effect of glutamate on extracellular potassium activity in isolated retina of cyprinid fish

Evelyne Zyzek and Jean-François Pujol — 449 Evaluation of the relative amount of specific GABA–benzodiazepine receptor mRNA after injection of total poly(A+)-RNA into *Xenopus* oocytes

A. M. François-Bellan, M. Héry, M. Faudon and F. Héry — 455 Evidence for GABA control of serotonin metabolism in the rat suprachiasmatic area

M. Recasens, J. Guiramand, A. Nourigat, I. Sassetti and G. Devilliers — 463 A new quisqualate receptor subtype (sAA_2) responsible for the glutamate-induced inositol phosphate formation in rat brain synaptoneurosomes

Thomas S. King and Inn Soo Kang — 469 Progesterone stimulation of *in vitro* GnRH release from the hypothalamus of the estrogen-primed, ovariectomized rat: serotoninergic role

Peter J. Gebicke-Haerter, András Seregi, Angelika Schobert and Georg Hertting — 475 Involvement of protein kinase C in prostaglandin D_2 synthesis by cultured astrocytes

Reinhard Schliebs and Claudia Gödicke — 481 Laminar distribution of noradrenergic markers in rat visual cortex

Shama Bhat and Donald H. Silberberg — 487 Adult human brain expresses four different molecular forms of neural cell adhesion molecules

Kiyokazu Ogita, Yasunao Ogawa and Yukio Yoneda — 493 Apparent binding activity of [^{3}H]glutathione in rat central and peripheral tissues

M. Zoli, L. F. Agnati, K. Fuxe, A. Cintra, R. Grimaldi, J. J. Vanderhaeghen, P. Eneroth and M. Goldstein — 499 Effects of chronic uridine treatment on regional neuropeptide and tyrosine hydroxylase-like immunoreactivities in the brain of 12 month-old male rats

Haruo Asai, Yukihiro Miyasaka, Yoshiyuki Kondo and Toshihiro Fujii — 509 Inhibition of tubulin-dependent ATPase activity in microtubule proteins from porcine brain by S100 protein

A. B. Tobin and N. N. Osborne — 517 Evidence for the presence of cholinergic muscarinic receptors negatively linked to adenylate cyclase in the iris-ciliary body

Toru Takahashi, Vipin K. Paliwal and Manuchair Ebadi — 525 Subcellular distribution of zinc and the presence of a metallothionein-like protein in bovine retina

Susan E. Venuti and George M. Helmkamp Jr — 531 Regional distribution in rat brain of phosphatidylinositol and phosphatidylcholine synthetic and intermembrane transfer activities

Contents

Keiko Ohsugi, Koshin Adachi and Masakuni Mukoyama	543	Biochemical studies on monoamine contents in spinal cord of patients with multiple system atrophy
Suzanne Knapp and Miles Merwin	549	Subcellular distribution of biopterin in rat brain: the biochemical basis of its stability
Anders Lehmann and Elisabeth Hansson	557	Kainate-induced stimulation of amino acid release from primary astroglial cultures of the rat hippocampus
	563	Book Reviews
	567	News Items
	571	Erratum

BEST COPY AVAILABLE